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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,180	01/26/2004	Laurent H. Andriantsiferana	062891.1235	3690
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BAKER BOTTS L.L.P. 2001 ROSS AVENUE SUITE 600 DALLAS, TX 75201-2980			EXAMINER LEE, BETTY E	
			ART UNIT 2619	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/766,180	Applicant(s) ANDRIANTSIFERANA, LAURENT H.	
	Examiner BETTY LEE	Art Unit 2619	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 January 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,5-10,12-16,18-22 and 24-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,5-10,12-16,18-22 and 24-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. Claims **1, 2, 5-10, 12-16, 18-22, and 24-26** are rejected under 35 U.S.C. 103(a) as being unpatentable over Hundscheidt et al. (US 2005/0007969) in view of Hundscheidt et al. (US 2005/0176404, hereafter '404) and Karjanlahti (US 2003/0187926).

Regarding claim 1, Hundscheidt teaches a gateway packet radio service (GPRS) support node (GGSN) operable to establish a communication link with an end user (see 89 lines 7-14), wherein the GGSN is operable to use signaling information associated with the communication link to identify a correlation between the end user and a multicast service group associated with the end user (see paragraph 89 lines 21-25), and wherein the correlation may be used to provide one or more multicast services to the end user (see paragraph 89 lines 21-25). Hundscheidt teaches all the subject matter of the claimed invention with the exception of the GGSN coupled to a client services packet gateway, the CSPG providing one or more services to the end user, the network services being selected from a group of network services consisting of: accounting; firewalling; filtering; wireless application protocol transformations; compression; optimization; billing; and content authorization.

However, '404 teaches the GGSN coupled to a client services packet gateway, the CSPG providing one or more services to the end user (see Fig. 8 Boxes 84, 86, and 87), the network services being selected from a group of network services consisting of:

accounting (see paragraph 65); billing (see paragraph 65); and content authorization (see paragraph 62; Content authorization is done using an encryption key.). Thus, it would have been obvious to one of ordinary skill in the art to use the

system of '404 in the multicast system of Hundscheidt. The motivation for doing so is to monitor the usage of the end user for billing purposes.

Hundscheidt teaches using a PDP context to register a mobile station to a multicast group (see paragraph 89). Hundscheidt teaches all the subject matter of the claimed invention with the exception of an APN. However, Karjanlahti teaches the signaling information includes an access point name that may be used to match the end user to the multicast service group (see paragraph 23 lines 1-3 and paragraph 24 lines 16-19). Thus, it would have been obvious to one of ordinary skill in the art to use the system of Karjanlahti in the system of Hundscheidt. The motivation for doing so is to increase efficiency by identifying the multicast group with a label.

Regarding claim 2, Hundscheidt further teaches a table included within the GGSN and operable to store the correlation between the end user and the multicast service group associated with the end user (see paragraph 89 lines 21-25).

Regarding claim 5, Hundscheidt further teaches the one or more of the multicast services is provided in a selected one of an audio stream format and a video stream format (see paragraph 20 lines 1-3; Multimedia, which includes an audio and video stream, is multicasted via an IP network.).

Regarding claim 6, Hundscheidt further teaches the GGSN is further operable to perform joining and leaving operations associated with the end user joining and leaving one or more multicast service group communication sessions (see paragraph 89 lines 7-14 and paragraph 103 lines 1-5).

Regarding claim 7, Hundscheidt further teaches the GGSN is further operable to forward IP multicast traffic associated with the multicast service group to the end user (see paragraph 76 lines 1-10).

Regarding claim 8, Hundscheidt further teaches the GGSN is further operable to replicate one or more packets and to deliver the packets to one or more communication tunnels associated with one or more end users that belong to the multicast service group (see paragraph 42 lines 1-7).

Regarding claims 9, 15, and 21, Hundscheidt further teaches establishing a communication link with an end user (see paragraph 89 lines 1-4);

evaluating signaling information associated with the end user and a multicast service group associated with the end user (see paragraph 89 lines 7-14); and

using the correlation to provide one or more multicast services to the end user (see paragraph 89 lines 7-14). Hundscheidt teaches all the subject matter of the claimed invention with the exception of the network services being selected from a group of network services consisting of: accounting; firewalling; filtering; wireless application protocol transformations; compression; optimization; billing; and content authorization.

However, '404 teaches the GGSN coupled to a client services packet gateway, the CSPG providing one or more services to the end user (see Fig. 8 Boxes 84, 86, and 87), the network services being selected from a group of network services consisting of:

accounting (see paragraph 65); billing (see paragraph 65); and content authorization (see paragraph 62; Content authorization is done using an encryption

key.). Thus, it would have been obvious to one of ordinary skill in the art to use the system of '404 in the multicast system of Hundscheidt. The motivation for doing so is to monitor the usage of the end user for billing purposes.

Hundscheidt teaches all the subject matter of the claimed invention with the exception of an APN. However, Karjanlahti teaches the signaling information includes an access point name that may be used to match the end user to the multicast service group (see paragraph 23 lines 1-3 and paragraph 24 lines 16-19). Thus, it would have been obvious to one of ordinary skill in the art to use the system of Karjanlahti in the system of Hundscheidt. The motivation for doing so is to increase efficiency by identifying the multicast group with a label.

Regarding claims 10, 16, and 22, Hundscheidt further teaches storing the correlation between the end user and the multicast service group associated with the end user in a table (see paragraph 89 lines 10-14).

Regarding claims 12, 18, and 24, Hundscheidt further teaches performing joining and leaving operations associated with the end user joining and leaving one or more multicast service group communication sessions (see paragraph 89 lines 7-14 and paragraph 103 lines 1-5).

Regarding claims 13, 19, and 25, Hundscheidt further teaches forwarding IP multicast traffic associated with the multicast service group to the end user (see paragraph 76 lines 1-10).

Regarding claims 14, 20, and 26, Hundscheidt further teaches replicating one or more packets associated with a selected one of the multicast services; and delivering

the packets to one or more communication tunnels associated with one or more end users that belong to the multicast service group (see paragraph 42 lines 1-7).

Response to Arguments

4. Applicant's arguments filed January 28, 2008 have been fully considered but they are not persuasive.

With respect to applicant's arguments regarding amended claims 1, 9, 15, and 21, applicant submits that Karjanlahti does not teach "wherein the signaling information includes an access point name (APN) that is used to match the end user to the multicast service group." Examiner respectfully disagrees.

Karjanlahti teaches using an APN in a PDP context activation message (see paragraph 23) to identify a service group and the users in the group (see paragraph 24). Karjanlahti also teaches that the APN+Group Identifier is used to correspond to the multicast IP address of a group (see paragraph 30).

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betty Lee whose telephone number is (571) 270-1412. The examiner can normally be reached on Monday-Thursday 9-5 EST and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Betty Lee

Examiner, Art Unit 2619

/Hassan Kizou/

Supervisory Patent Examiner, Art Unit
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